From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

INTERNATIONAL PRELIMINART EXAMINING AUTHORIT				
То:	PCT			
TBK-Patent	WENTERS CORD HOLLOS WITH			
Leson, Thomas, Johannes, Alois	WRITTEN OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY			
Bavariaring 4-6				
D-80336 München RECEIVED EINGEGANGEN				
Tybriana /	(PCT Rule 66)			
2 2. Sep. 2004				
TOV SITE	Date of mailing 2 a 00 2001			
TBK - PATENT	(day/month/year) 2 0 -09- 2004			
Applicant's or agent's file reference	REPLY DUE within 60 days from			
WO 36757	the above date of mailing			
International application No. International filing date	1			
PCT/IB2002/005531 19-12-2002				
International Patent Classification (IPC) or both national classification	ion and IPC			
H04Q7/38, H04L12/28	ion and if C			
Applicant				
Nokia Corporation et al				
1. The written opinion established by the International Searching Authority: is				
For an informal communication with the examiner, see Rule 66.6. For an additional opportunity to submit amendments, see Rule 66.4. If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.				
4. The final date by which the international preliminary report on patentability (Chapter II of the PCT) must be established according to Rule 69.2 is: 19-04-2005				
Name and mailing address of the IPEA/SE Authorized officer				
Patenta och registreringsverket				

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Peter Hedman/MN
Telephone No. 46 8 782 25 00

Form PCT/IPEA/408 (cover sheet) (January 2004)

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WRITE OPINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

Internal application No.
PCT/IB2002/005531

Вох	No. I	Basis of the opinion				
1.	 With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 					
		This opinion is based on a translation from the original language into the following lawhich is the language of a translation furnished for the purposes of:	anguage,			
		international search (under Rules 12.3 and 23.1(b))				
		publication of the international application (under Rule 12.4)				
		international preliminary examination (under Rules 55.2 and/or 55.3)				
2.	With regard to the elements of the international application, this opinion has been established on the basis of (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed."): the international application as originally filed/furnished					
		the description:	ļ			
		P-8-5	as originally filed/furnished			
		pages received by this Authority on _				
		pages received by this Authority on _				
		the claims:				
		pages	as originally filed/furnished			
		pages as amended (together				
	•					
		the drawings:	as originally filed/furnished			
		pages received by this Authority on				
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	[]	a sequence listing and/or any related table(s) – see Supplemental Box Relating to S				
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3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
		the sequence listing (specify):				
		any table(s) related to the sequence listing (specify):				
4.			is opinion has been established as if (some of) the amendments had not been made, since they have been considered to beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).			
		the description, pages				
		the claims, Nos.				
		the drawings, sheets/figs				
	the sequence listing (specify):					
	any table(s) related to the sequence listing (specify):					
and more following to me softeness more follows.						
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Form PCT/IPEA/408 (Box No. I) (January 2004)

WRITT PINION OF THE INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

Internal application No.
PCT/IB2002/005531

Box No. V	Reasoned statement un citations and explanation	der Rule 66.2 ons supportin	(a)(ii) with regard to novelty, inventive step or industrial applicability; g such statement
1. Statemer	nt		
Nov	elty (N)	Claims	1,5-8,11,12,14,18-21,24,25,27
		Claims	31-35.39-42.44.45
Inventive step (IS)		Claims	2-4.9.10.13.15-17.22.23.26.28-30
		Claims	36-38.43.46
Indu	ustrial applicability (IA)	Claims	
		Claims	

2. Citations and explanations:

The claimed invention relates to an improvement of the mechanism used for communication connection changeover decisions in wireless frequency multi-band networks.

Reference is made to the following documents:

D1: GB 2 373 966 A D2: WO 99/05873 A1

The document D1 is regarded as being the closest prior art to the subject-matter of independent claims 1, 14, 27 and 35, and discloses (See page 3, line 4-line 19; page 3, line 25-page 4, line 20; page 6, line 24-line 31; page 7, line 17-line 21; page 9, line 28-page 10, line 5; page 10, line 20-line 24; page 11, line 11-line 24): A system, method and a communication device comprising a distributed radio concept, wherein communication information associated with a first network may be transmitted to/from a node belonging to a second network. Wireless devices are adapted to communicate with any of the two networks and can also communicate with each other via WPAN (Wireless Personal Area Network). The communication information may comprise network configuration, neighbour cell lists, loading The retrieved information is to be used when level etc. determine whether to handover to another network, frequency carrier and/or air interface mode (page 3, line 25-page 4, line 19).

What is claimed in claims 1, 14, 27 and 35 is thus already known from D1. Therefore these claims fail to describe a novel invention.

D1 do describe a network in which radio devices may operate in different air interface modes. D1 does however not specifically mention WLAN.

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Intern application No.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Instead D1 describe the two interfaces GSM and W-CDMA and how information about carriers belonging to these air interface modes may be forwarded to radio devices via the nodes in the system and, when necessary, also relayed via WPAN. The person skilled in the art which is faced with the problem providing carrier frequencies for an alternative mode/standard, such as WLAN, has the knowledge to do without having to take any inventive steps. It is, thus, considered as an obvious alternative to also implement the arrangement in association with a WLAN and to provide access and carrier frequencies belonging to a WLAN to the wireless devices of the proposed arrangement. The coexistence of WPAN and WLAN is also mentioned on page 3, line 6-9. Therefore, claims 2,3,15,16,28,29,36 and 37 fail to involve an inventive step.

D1 fails to discuss the use of broadcasted beacon packets. Broadcasting of beacon signals is, however, commonly known and used for example in GSM. An implementation of such a function is also described in D2 (See page 7, line 17-page 8, line 3; page 8, line 13-line 20), in which document a hand-off procedure based on pilot signal strength is discussed. The document also suggest that a signal strength is detected from the received beacon signal. In addition it is suggested that this signal strength is compared to a predetermined threshold. Finally, D1 states that hand-off decisions made from the result of evaluated beacon signals are made by the mobile terminals which have received the beacon signal. D1 and D2 both refer to the same technical field. The person skilled in the art therefore can come up with a solution comparable to the one suggested in any of claims 4,9,10,13,17,22,23,26,30, 38,43 and 46 wherein communication information is forwarded via broadcasted beacon packets, by way of combining what is known from D1 and D2. For this reason also these claims fail to involve an inventive step.

Considering claims 5-8,18-21,31-34 and 39-42, exchange information mentioned in D1 include information, and as such an indication, about different networks, frequency carriers, traffic load, neighbour cell lists. Claims 11,12,24,25,44 and 45 only refer to commonly known alternatives for executing inter-frequency or intra-frequency changeovers, respectively, both alternatives of which may be executed by the embodiment described in D1. Consequently, also these claims fail to describe a novel invention. Therefore, these claims all fail to describe a novel invention.